



GeoInsight®

Environmental Strategy & Engineering
Practical in Nature

April 15, 2009

GeoInsight Project 2491-001

Frank Gardner
U.S. Environmental Protection Agency
One Congress Street, Suite 1100-HBR
Boston, Massachusetts 02114-2023

RE: Fifty-Sixth Progress Report
Administrative Order on Consent for Removal Action
Wells G&H Superfund Site
Olympia Nominee Trust Property
60 Olympia Avenue
Woburn, Massachusetts
CERCLA Docket # 01-2004-0059

Dear Mr. Gardner:

GeoInsight, Inc. (GeoInsight) prepared this progress report to describe activities completed at 60 Olympia Avenue in Woburn, Massachusetts (the Site) during the fifty-sixth progress report period (March 15 to April 15, 2009). This report was prepared in accordance with the June 21, 2004 United States Environmental Protection Agency (USEPA) Administrative Order on Consent for Removal Action (CERCLA Docket No. 01-2004-0059; the "Order"). The report was prepared by GeoInsight at the request of Olympia Nominee Trust, current owner of the 60 Olympia Avenue property.

Ground Water Sampling Event

A focused ground water sampling event was performed on April 7 and April 8, 2009. Ground water samples were collected from monitoring wells located inside and outside the treatment cell. Ground water samples were collected from monitoring wells listed below and were submitted for volatile organic compound (VOC) analyses and metals (i.e., dissolved iron, arsenic, and manganese, chloride, and sodium) analyses:

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	VOCs	VOCs / Metals
Inside Treatment Cell	OL-002, OL-2M, OL-003, OL-3M, MW-200S, MW-200D, MW-202D, MW-203S, MW-204S, MW-204D, MW-205S, MW-207S, MW-207D, MW-208S, MW-209S, MW-209D, MW-210S, MW-210D, MW-211D, MW-212S, GEO-4, TEST-1	MW-204D
Outside Treatment Cell	MW-014S, MW-014D, MW-13, MW-212D, MW-213S, MW-215S, MW-217S, MW-217M, MW-218S, MW-218M, MW-219S, MW-219M	MW-12, MW-215S, MW-217S, MW-217M

The laboratory analytical report and tabulated data for the comprehensive ground water sampling event performed in April 2009 will be forwarded to the USEPA in a subsequent progress report after a quality assurance review of these data is completed.

Permanganate Monitoring

To evaluate the distribution of sodium permanganate prior to the April 2009 injection event, monitoring wells inside and outside the treatment cell were monitored for the presence of permanganate (i.e., purple color) on April 7 and April 8, 2009. The MW-200 series monitoring wells were visually monitored for color using a peristaltic pump and clear tubing. Permanganate distribution will be summarized in subsequent progress reports.

Please contact us at 978-692-1114 if you have questions regarding the content of this progress report.

Sincerely,
GEOINSIGHT, INC.

Christene A. Binger
Senior Hydrogeologist

Michael J. Webster, P.G., L.S.P.
Senior Associate

cc: Chub Whitten, Olympia Nominee Trust
David P. Rosenblatt, Esq., Burns & Levinson LLP

Attachments:
Work Plan Implementation Schedule



**WORK PLAN IMPLEMENTATION SCHEDULE
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS**

TASK DESCRIPTION	SCHEDULE
Permits Submit permit application to Massachusetts Water Resources Authority (MWRA) to drive sheet pile and continue construction activities. MWRA Approval	Completed October 2004 October 26, 2004
Site Preparation Bridge Enhancements for Sheet Pile Crane Brush Clearing	Completed November 2004
Sheet Pile Installation	Completed January 2005
Injection Well and Trench Installation Trenching Horizontal Wells (5 days) Drilling Vertical Injection Wells (10 days) Monitoring Well Installation Additional Injection Wells F-5, F-6, F-7 K-Series	Completed January 2005 Completed February 2005 Completed August 2005 Completed May 2007
Installation of Liquid Permanganate Delivery System Staging Area for Permanganate Storage Delivery of Permanganate (70 drums total) Delivery of Permanganate (70 drums total) Delivery of Permanganate (21 drums total) Delivery of Permanganate (4 drums total) Delivery of Permanganate (8 drums total) Delivery of Permanganate (5 drums total) Delivery of Permanganate (4 drums total) Delivery of Permanganate (4 drums total)	Completed May 2005 May 11, 2005 and June 10, 2005 October 7, 2005 and October 28, 2005 December 2, 2005 September 5, 2007 May 19, 2008 October 13, 2008 November 10, 2008 December 8, 2008



**WORK PLAN IMPLEMENTATION SCHEDULE
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS**

TASK DESCRIPTION	SCHEDULE
Up to 20 Injection Events - Dependent on Site Monitoring (1,000 gallons of 40 percent NaMnO ₄ per event)	1 st Injection: September 1, 2005 (Trenches) 2 nd Injection: September 15, 2005 (Trenches) 3 rd Injection: September 29, 2005 (Wells) 4 th Injection: October 13, 2005 (Trenches) 5 th Injection: November 3, 2005 (Wells) 6 th Injection: November 10, 2005 (Trenches) 7 th Injection: November 22, 2005 (Wells) 8 th Injection: December 16, 2005 (Wells/Trenches)
Focused Injection Events (580 gallons of 10 to 20 percent NaMnO ₄) (3,200 gallons of 5 percent NaMnO ₄) (3,700 gallons of 2 to 4 percent NaMnO ₄) (4,900 gallons of 2 to 3 percent NaMnO ₄) (4,400 gallons of 2 to 3 percent NaMnO ₄)	9 th Injection: September 6, 2007 (Wells) 10 th Injection: May 20 to 22, 2008 (Direct-push/Wells/Trenches) 11 th Injection: October 14 to 17, 2008 (East Side, Direct-push/Trenches) 12 th Injection: November 10 to 14, 2008 (Direct-push/Trenches) 13 th Injection: December 8 to 11, 2008 (Direct-push/Trenches)
Ground Water Monitoring 2005 Baseline Comprehensive Sampling Event Focused Sampling Events 2006 Comprehensive Sampling Event Focused Sampling Events	April 13 and 14, 2005 September 13, 2005 January 11, 2006 February 9, 2006 March 10, 2006 April 24, 25, and 26, 2006 July 19, 2006 August 31, 2006 September 28, 2006 October 30, 2006 December 14, 2006 March 28, 2007



**WORK PLAN IMPLEMENTATION SCHEDULE
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS**

TASK DESCRIPTION	SCHEDULE
Ground Water Monitoring (continued) 2007 Comprehensive Sampling Event Focused Sampling Event 2008 Comprehensive Sampling Event Focused Sampling Events 2009 Focused Sampling Events	 April 24, 25, 26, 2007 November 5, 2007 April 22, 23, and 24, 2008 August 6, 2008 November 13, 2008 December 11, 2008 March 9, 2009 April 7 and 8, 2009
Additional Assessment Activities included in November 28, 2006 Scope of Work Subsurface Investigation Activities Focused Ground Water Sampling Event	 May 14 to 18, 2007 June 18, 2007
Additional Assessment Activities included in March 14, 2008 Scope of Work Subsurface Investigation Activities	 June 9 to 11, 2008